



PATENT  
Docket No. 20002/17479

**IN THE UNITED STATES PATENT  
AND TRADEMARK OFFICE**

Applicant(s): DESAI

Serial No.: 10/630,164

Filed: July 30, 2003

For: "Methods and Apparatus for  
Maintaining Cache Coherency"

Group Art Unit: 2186

Examiner: Jonathan A. Barton

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) **April 24, 2006**

)   
) James A. Flight

) Registration No. 37,622

) Attorney for Applicant(s)

**INFORMATION DISCLOSURE STATEMENT**

Mail Stop Amendment  
Commissioner for Patents  
P.O. Box 1450  
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Dear Sir:

The documents listed on the enclosed PTO Form-1449 are submitted pursuant to  
37 CFR §§ 1.56, 1.97, and 1.98. Copies of the non-U.S. Patent documents are enclosed.



## TIME OF FILING

This information disclosure statement is being filed to the best of the undersigned's knowledge, before the mailing date of a final action under 37 CFR §1.113 or notice of allowance under 37 CFR §1.311. Therefore, in accordance with 37 CFR §1.97(c), submitted herewith is the fee set forth in 37 CFR §1.17(p) for submission of an information disclosure statement under 37 CFR §1.97(c).

## METHOD OF PAYMENT

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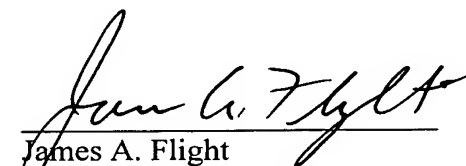
The Commissioner is authorized to charge any fee deficiency required by this paper, or credit any overpayment, to Deposit Account No. 50-2455. A copy of this paper is enclosed.

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Respectfully submitted,

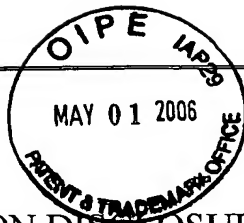
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April 24, 2006

Form PTO-1449 (Modified)

U.S. Department of Commerce  
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(Use several sheets if necessary)

## U.S. PATENT DOCUMENTS

*EXAMINER INITIALS		DOCUMENT NUMBER	ISSUE DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	A01	5,664,150	09/1997	Isaac et al.			
	A02	5,765,199	06/1998	Chang et al.			
	A03	5,802,577	09/1998	Bhat et al.			
	A04	5,867,162	02/1999	O'Leary et al.			
	A05	5,913,226	06/1999	Sato			
	A06	6,266,744	07/2001	Hughes et al.			
	A07	6,425,060	07/2002	Mounes-Toussi et al.			
	A08	6,438,660	08/2002	Reams			
	A09	6,519,685	02/2004	Chang			
	A10	6,549,990	04/2003	Hughes et al.			
	A11	6,615,322	09/2003	Arimilli et al.			
	A12	6,615,323	09/2003	Petersen et al.			
	A13	6,694,409	02/2004	Chang			
	A14	6,775,748	08/2004	Jamil et al.			
	A15	5,996,049	11/30/99	Arimilli et al.			
	A16	5,943,684	08/1999	Arimilli et al.			
	A17	6,073,211	06/2000	Cheng et al.			
	A18	6,170,040	01/2001	Lee et al.			
	A19	6,345,340	02/2002	Arimilli et al.			
	A20	6,360,301	03/2002	Gaither et al.			
	A21	6,378,048	03/2002	Prudvi et al.			
	A22	6,549,989	04/2003	Arimilli et al.			
	A23	6,574,710	06/2003	Gaither et al.			

EXAMINER

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\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

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	A24	6,629,212	09/2003	Arimilli et al.			
	A25	6,574,710	06/2003	Gaither et al.			
	A26	6,785,774	08/2004	Arimilli et al.			
	A27	6,834,327	12/2004	Lyon			
	A28	6,321,297	11/2001	Shamanna et al.			
	A29	5,369,753	11/1994	Tipley			
	A30	2003/0154352	08/2004	Jamil et al.			
	A31	5,765,199	06/1998	Chang et al.			
	A32	5,802,577	09/1998	Bhat et al.			
	A33	5,867,162	02/1999	O'Leary et al.			
	A34	6,266,744	07/2001	Hughes et al.			
	A35	6,425,060	07/2002	Mounes-Toussi et al.			
	A36	6,519,685	02/2003	Chang			
	A37	6,515,323	09/2003	Petersen et al.			
	A38	6,694,409	02/2004	Chang			
	A39	5,512,874	04/1996	Poston, Travis			
	A40	5,523,703	06/1996	Yamamoto et al.			
	A41	5,686,872	11/1997	Fried et al.			
	A42	5,731,711	03/1998	Gabara, Thaddeus John			
	A43	6,317,839	11/2001	Wells, Robert Marion			
	A44	6,320,406	11/2001	Morgan et al.			
	A45	6,339,344	01/2002	Sakata et al.			
	A46	6,411,146	06/2002	Kuo, James R.			

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**U.S. PATENT DOCUMENTS**

*EXAMINER INITIALS		DOCUMENT NUMBER	ISSUE DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	A47	6,552,578	04/2003	Cheung et al.			
	A48	6,593,801	07/2003	Hattori, Hide			
	A49	2003/0198296	10/2003	Bonelli et al.			
	A50	6,724,891	04/2004	Huang et al.			
	A51	6,791,371	09/2004	Cheung, Hung-Yan			
	A52	5,666,068	09/09/1997	Ehmann			
	A53	6,034,551	03/07/2000	Bridgewater, Jr.			
	A54	6,157,974	12/05/2000	Gasparik			
	A55	6,307,401	10/23/2001	Bridgewater, Jr.			
	A56	2002/0017920	02/14/2002	Bridgewater, Jr.			
	A57	5,959,472	09/28/1999	Nagamatsu et al.			
	A58	5,905,998	05/1999	Ebrahim et al.			
	A59	6,880,031	04/2005	Singh et al.			
	A60	7,000,078	02/2006	Jones et al.			
	A61	6,167,492	12/2000	Keller et al.			
	A62	6,490,661	12/2002	Keller et al.			
	A63	6,405,289	06/2002	Arimilli et al.			
	A64	5,659,710	08/1997	Sherman et al.			
	A65	6,760,819	07/2004	Dhong et al.			
	A66	2005/0166020	07/2005	Jamil et al.			

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		Filing Date <b>July 30, 2003</b>	Group Art Unit 2186

**OTHER DOCUMENTS** (Including Author, Title, Date, Pertinent Pages, etc.)

C01	Tomasevic, M; Milutinovic, V. "Hardware Approaches to Cache Coherence in Shared-Memory Multiprocessors, Part 1." IEEE Micro. Vol. 14, Issue 5, pp 52-59. Oct. 1994.
C02	Tomasevic, M; Milutinovic, V. "Hardware Approaches to Cache Coherence in Shared-Memory Multiprocessors, Part 2." IEEE Micro. Vol. 14, Issue 6, pp 61-66. Dec. 1994.
C03	"Intel® Itanium™ Processor Hardware Developer's Manual." ftp://download.intel.com/design/Itanium/Downloads/24870102.pdf. Document Number: 248701-002. August 2001.
C04	"Intel® Itanium™ 2 Processor Hardware Developer's Manual." ftp://download.intel.com/design/Itanium2/manuals/25110901.pdf. Document Number: 251109-001. July 2002.
C05	"Intel® Pentium® 4 Processor with 512-KB L2 Cache on 0.13 Micron Process Datasheet." ftp://download.intel.com/design/Pentium4/datashts/29864309.pdf. Document Number: 298643-009. May 2003.
C06	Handy, <i>The Cache Memory Book</i> , Academic Press, Inc., 2 <sup>nd</sup> edition, pp. 126-7; 156-186 (© 1998).
C07	Lee, <i>A Secondary Cache Controller Design for a High-End Microprocessor</i> , Institute of Electrical and Electronics Engineers, Inc., pp. 1141-1146 (© 1992).

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